International application No.

PCT/JP2004/018006

	CATION OF SUBJECT MATTER C12N15/11, 15/85, 5/06, A01K	67/027, C12P21/02		
According to International Patent Classification (IPC) or to both national classification and IPC				
B. FIELDS SEARCHED				
Minimum docun	nentation searched (classification system followed by cl C12N15/11, 15/85, 5/06, A01K	assification symbols) 67/027, C12P21/02		
	searched other than minimum documentation to the exte			
SwissP:	pase consulted during the international search (name of crot/PIR/GeneSeq, Genbank/EMBL/I (STN), MEDLINE (STN), BIOSIS (STN)	DBJ/GeneSeq,	•	
C. DOCUMEN	NTS CONSIDERED TO BE RELEVANT	•.		
Category*	Citation of document, with indication, where ap	· · · · · · · · · · · · · · · · · · ·	Relevant to claim No.	
Y	J.P. Morgenstern et al., "A sexpression vectors and character their expression of a reporter and transiently transfected and transiently transfected Acids Res., 1990, Vol.18, No.	eterisation of er gene in stably cells.", Nucleic	1-4,7-19, 21-25,28-29	
Y	Donis JA et al., "Comparison of a series of mammalian vect the neuronal cell lines PC12 Biotechniques., 1993, Vol.15,	or promoters in and HT4.",	1-4,7-29	
Y	Jaffe L. et al., "Developmental failure of chimeric embryos expressing high levels of H-2Dd transplantation antigens.", Proc.Natl. Acad.Sci.U.S.A., 1992, Vol.89, No.13, p.5927-31		1-3,7-18, 21-24,28-29	
× Further do	cuments are listed in the continuation of Box C.	See patent family annex.		
* Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "I" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention			ation but cited to understand invention	
"E" earlier application or patent but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means document published prior to the international filing date but later than the priority date claimed			lered to involve an inventive claimed invention cannot be step when the document is documents, such combination art	
Date of the actual completion of the international search 09 March, 2005 (09.03.05)		Date of mailing of the international sear 22 March, 2005 (22)		
Name and mailing address of the ISA/ Japanese Patent Office		Authorized officer		
Facsimile No. Telephone No. Form PCT/ISA/210 (second sheet) (January 2004)				

International application No.
PCT/JP2004/018006

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	KIM T. et al., "Gene transfer into bovine cells and embryos using replication-defective retroviral vectors encapsidated with xenotropic murine leukemia virus envelopes", Animal Biotechnology, 1993, Vol.4, No.1, pages 53 to 69	1-4,7-17, 21-24,28
Y	US 2003/0072938 A1 (John C. Kappes, Xiaoyun Wu), 17 April, 2003 (17.04.03), Figures, SEQ:ID:NO:1 & WO 96/032494 A1 & EP 873415 A & JP 2003-519476 A	1,3,4,7-29
Y	Zufferey R. et al., "Woodchuck hepatitis virus posttranscriptional regulatory element enhances expression of transgenes delivered by retroviral vectors.", J.Virol., 1999, Vol.73, No.4, p.2886-92	1,3,4,7-29
Y	JP 7-502510 A (The Regents of the University of California), 16 March, 1995 (16.03.95), Fig. 19B(2) & WO 93/012240 A1 & EP 619742 A & US 5756353 A1	1,2,4,7-29
Y	YANO T. et al., "Ras oncogene enhances the production of a recombinant protein regulated by the cytomegalovirus promoter in BHK-21 cells.", Cytotechnology., 1994, Vol.16, No.3, p.167-78	9-29
A	XU ZL. et al., "Optimization of transcriptional regulatory elements for constructing plasmid vectors. Gene., 2001, Vol.272, No.1-2, p.149-56	1-29
А	NUDEL U. et al., "The nucleotide sequence of the rat cytoplasmic beta-actin gene.", Nucleic Acids Res., 1983, Vol.11, No.6, p.1759-71	1-29
E,A	WO 2005/00888 A2 (ESTES S.D., ZHANG W., GENZYME CORP.), 06 January, 2005 (06.01.05), (Family: none)	1-29

Games of first sheet (2)) (January 2004)

International application No.

PCT/JP2004/018006

Box No. II	Observations where certain claims were found unsearchable (Continuation of item 2 of first sneet)
1. Claims	al search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons: s Nos.: se they relate to subject matter not required to be searched by this Authority, namely:
2. Claims becaus extent	s Nos.: se they relate to parts of the international application that do not comply with the prescribed requirements to such an that no meaningful international search can be carried out, specifically:
	s Nos.: se they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box No. III	Observations where unity of invention is lacking (Continuation of item 3 of first sheet)
The mathe results not	ter common to claims 1 to 37 resides in "a β-actin promoter". As 1ts of the search, however, it is found out that "a β-actin promoter" ovel because of having been disclosed in document (TK Antonucci, et karyotic promoters drive gene expression in Escherichia coli", J. em. 1989, Vol. 264, p. 17656-17659). Consequently, "aβ-actin promoter" thin the category of prior art and, therefore, this common matter occasioned as a special technical feature. Thus, the inventions orth in claims 1 to 37 are divided into the inventions as set forth as 1 to 29 having a special technical feature in "a DNA construct comprising over and a mammalian (continued to extra sheet) required additional search fees were timely paid by the applicant, this international search report covers all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of ditional fee. By some of the required additional search fees were timely paid by the applicant, this international search report covers hose claims for which fees were paid, specifically claims Nos.:
restric	quired additional search fees were timely paid by the applicant. Consequently, this international search report is sted to the invention first mentioned in the claims; it is covered by claims Nos.: 1 to 29
Remark on Pr	The additional search fees were accompanied by the applicant's protest. No protest accompanied the payment of additional search fees.

International application No.

PCT/JP2004/018006

Continuation of Box No.III of continuation of first sheet(2)

 β -actin promoter functionally bonded thereto", and the inventions as set forth in claims 30 to 37 having a special technical feature in "a method of elevating the expression amount of a desired DNA characterized by comprising integrating a β -actin promoter originating in the same animal order and species as the host cell into the upstream of the desired DNA". Namely, claims 1 to 37 have two general inventive concepts and there is no novel and special technical feature common to these general inventive concepts. Such being the case, it appears that the present application does not comply with the requirement of unity of invention (Enforcement of the Law Article 13 (PCT Rules 13.1, 13.2 and 13.3)).